

## PCT REQUEST

Original (for SUBMISSION)

<b>0</b>	<b>For receiving Office use only</b>	
<b>0-1</b>	International Application No.	
<b>0-2</b>	International Filing Date	
<b>0-3</b>	Name of receiving Office and "PCT International Application"	
<b>0-4</b>	<b>Form PCT/RO/101 PCT Request</b>	
<b>0-4-1</b>	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.162)
<b>0-5</b>	<b>Petition</b> The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
<b>0-6</b>	Receiving Office (specified by the applicant)	United Kingdom Patent Office (RO/GB)
<b>0-7</b>	Applicant's or agent's file reference	P72176WO00
<b>I</b>	<b>Title of Invention</b>	CONVERSION OF AMINE- TO CARBOXYL GROUPS ON SOLID SURFACES
<b>II</b>	<b>Applicant</b>	
<b>II-1</b>	This person is	applicant only
<b>II-2</b>	Applicant for	all designated States except US
<b>II-4</b>	Name	SOLEXA LIMITED
<b>II-5</b>	Address	Little Chesterford Saffron Walden ESSEX CB10 1XL United Kingdom
<b>II-6</b>	State of nationality	GB
<b>II-7</b>	State of residence	GB
<b>III-1</b>	<b>Applicant and/or inventor</b>	
<b>III-1-1</b>	This person is	applicant only
<b>III-1-2</b>	Applicant for	all designated States except US
<b>III-1-4</b>	Name	LYNX THERAPEUTICS INC.
<b>III-1-5</b>	Address	25861 Industrial Boulevard Hayward, California 94545 United States of America
<b>III-1-6</b>	State of nationality	US
<b>III-1-7</b>	State of residence	US

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<b>III-2</b>	<b>Applicant and/or inventor</b>	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	FEDURCO, Milan
III-2-5	Address	8, Avenue Giuseppe Motta 1202 GENEVA Switzerland
III-2-6	State of nationality	SK
III-2-7	State of residence	CH
<b>III-3</b>	<b>Applicant and/or inventor</b>	
III-3-1	This person is	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	ROMIEU, Anthony
III-3-5	Address	112, Rue Eau de Robec 76000 Rouen France
III-3-6	State of nationality	FR
III-3-7	State of residence	FR
<b>III-4</b>	<b>Applicant and/or inventor</b>	
III-4-1	This person is	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	TURCATTI, Gerardo
III-4-5	Address	17 rue Dr. Alfred Vincent 1201 Geneva Switzerland
III-4-6	State of nationality	CH
III-4-7	State of residence	CH
<b>IV-1</b>	<b>Agent or common representative; or address for correspondence</b>	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	BALDOCK, Sharon, Claire
IV-1-2	Address	BOULT WADE TENNANT Verulam Gardens 70 Gray's Inn Road LONDONWC1X 8BT United Kingdom
IV-1-3	Telephone No.	+44 (0)20 7430 7500
IV-1-4	Facsimile No.	+44 (0)20 7430 7600
IV-1-5	e-mail	boult@boult.com

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IV-2	Additional agent(s)	additional agent(s) with same address as first named agent	
IV-2-1	Name(s)	BAYLISS, Geoffrey, Cyril; ALEXANDER, Thomas, Bruce; CROSS, Rupert, Edward, Blount; BUCKS, Teresa, Anne; PLUCKROSE, Anthony, William; MCLEISH, Nicholas, Alistair; HAYES, Adrian, Chetwynd; MERRIFIELD, Sarah, Elizabeth; DRAPER, Martyn, John; FROST, Alex, John; SETNA, Rohan, Piloo; THOMSON, Neil, David; PALMER, Jonathan, Richard	
V	DESIGNATIONS		
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.		
VI-1	Priority claim of earlier regional application		
VI-1-1	Filing date	25 September 2003 (25.09.2003)	
VI-1-2	Number	03021777.2	
VI-1-3	Regional Office	EP	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VII-2	Request to use results of earlier search; reference to that search		
VII-2-1	Date	20 February 2004 (20.02.2004)	
VII-2-2	Number	03021777.2	
VII-2-3	Country (or regional Office)	EP	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	1	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	

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VIII-4-1	<p><b>Declaration: Inventorship (only for the purposes of the designation of the United States of America)</b> Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1-1	Prior applications:	03021777.2, EP, 25 September 2003 (25.09.2003)

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		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1-1-1	Name (LAST, First)	FEDURCO, Milan
VIII-4-1-1-2	Residence: (city and either US State, if applicable, or country)	GENEVA, Switzerland
VIII-4-1-1-3	Mailing address:	8, Avenue Giuseppe Motta CH-1202 GENEVA Switzerland
VIII-4-1-1-4	Citizenship:	SK
VIII-4-1-1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

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VIII-4-1-2-1	Name (LAST, First)	ROMIEU, Anthony
VIII-4-1-2-2	Residence: (city and either US State, if applicable, or country)	Rouen, France
VIII-4-1-2-3	Mailing address:	112, Rue Eau de Robec Rouen F-76000 France
VIII-4-1-2-4	Citizenship:	FR
VIII-4-1-2-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-2-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1-3-1	Name (LAST, First)	TURCATTI, Gerardo
VIII-4-1-3-2	Residence: (city and either US State, if applicable, or country)	Geneva, Switzerland
VIII-4-1-3-3	Mailing address:	17 re Dr. Alfred Vincent CH-1201 Geneva Switzerland
VIII-4-1-3-4	Citizenship:	CH
VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

**PCT REQUEST**Original (for **SUBMISSION**)

IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	8	✓
IX-2	Description (excluding sequence listing part)	40	-
IX-3	Claims	9	-
IX-4	Abstract	1	✓
IX-5	Drawings	11	-
IX-7a	Sub-total number of sheets	69	
IX-6a	Sequence listing part of description	1	-
IX-7	TOTAL	70	
	<b>Accompanying Items</b>	<b>paper document(s) attached</b>	<b>electronic file(s) attached</b>
IX-8	Fee calculation sheet	✓	-
IX-16(A)	Sequence listing in computer readable form		
IX-16(A) -(i)	copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	-	1 Diskette
IX-17	PCT-SAFE physical media	-	✓
IX-19	Figure of the drawings which should accompany the abstract	10	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	MERRIFIELD, Sarah, Elizabeth	
X-1-2	Name of signatory		
X-1-3	Capacity		

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	



P72176WO00

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**PCT REQUEST**

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11-1	Date of receipt of the record copy by the International Bureau	
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**PCT REQUEST (ANNEX - FEE CALCULATION SHEET)**Original (for **SUBMISSION**)

(This sheet is not part of and does not count as a sheet of the international application)

<b>0</b>	<b>For receiving Office use only</b>		
<b>0-1</b>	International Application No.		
<b>0-2</b>	Date stamp of the receiving Office		
<b>0-4</b>	<b>Form PCT/RO/101 (Annex) PCT Fee Calculation Sheet</b>		
<b>0-4-1</b>	Prepared Using	<b>PCT-SAFE [EASY mode] Version 3.50 (Build 0002.162)</b>	
<b>0-9</b>	Applicant's or agent's file reference	<b>P72176WO00</b>	
<b>2</b>	Applicant	<b>SOLEXA LIMITED</b>	
<b>12</b>	<b>Calculation of prescribed fees</b>	fee amount/multiplier	Total amounts (GBP)
<b>12-1</b>	Transmittal fee <b>T</b>	⇒	<b>55</b>
<b>12-2-1</b>	Search fee <b>S</b>	⇒	<b>1078</b>
<b>12-2-2</b>	International search to be carried out by	<b>EP</b>	
<b>12-3</b>	International filing fee (first 30 sheets) <b>i1</b>	<b>628</b>	
<b>12-4</b>	Remaining sheets	<b>40</b>	
<b>12-5</b>	Additional amount <b>(X)</b>	<b>7</b>	
<b>12-6</b>	Total additional amount <b>i2</b>	<b>280</b>	
<b>12-7</b>	<b>i1 + i2 = i</b>	<b>908</b>	
<b>12-12</b>	EASY Filing reduction <b>R</b>	<b>-45</b>	
<b>12-13</b>	Total International filing fee (i-R) <b>I</b>	⇒	<b>863</b>
<b>12-14</b>	Fee for priority document		
	Number of priority documents requested	<b>0</b>	
<b>12-15</b>	Fee per document <b>(X)</b>	<b>22</b>	
<b>12-16</b>	Total priority document fee: <b>P</b>	⇒	
<b>12-17</b>	<b>TOTAL FEES PAYABLE (T+S+I+P)</b>	⇒	<b>1996</b>
<b>12-19</b>	Mode of payment	<b>cheque</b>	

This invention provides a new method of obtaining a high density, reproducible and uniform coverage of a solid surface, compounds suitable for such a method and methods of preparing such compounds. This invention further relates to methods of the chemical modification (carboxylation) of solid surfaces and their subsequent use for the attachment of amine-containing molecules including DNA, proteins and other polymers.